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1 The complexity of searching a graph

N. Megiddo, S. L. Hakimi, M. R. Garey, D. S. Johnson, C. H. Papadimitriou
January 1988 **Journal of the ACM (JACM)**, Volume 35 Issue 1
Publisher: ACM Press

Full text available: pdf(2.28 MB) Additional Information: full citation, abstract, references, citings, index terms, review

T. Parsons originally proposed and studied the following pursuit-evasion problem on graphs: Members of a team of searchers traverse the edges of a graph G in pursuit of a fugitive, who moves along the edges of the graph with complete knowledge of the locations of the pursuers. What is the smallest number s(G) of searchers that will suffice for guaranteeing capture of the fugitive? It is shown that determining whether s(

2 Session 11A: Finding paths and cycles of superpolylogarithmic length

Harold N. Gabow
June 2004 **Proceedings of the thirty-sixth annual ACM symposium on Theory of computing STOC '04**
Publisher: ACM Press

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Let l be the number of edges in a longest cycle containing a given vertex v in an undirected graph. We show how to find a cycle through v of length $(\Omega(\sqrt{\log l}, \log\log l))$ in polynomial time. This implies the same bound for the longest cycle, longest vw-path and longest path. The previous best bound for longest path is length $\Omega((\log l)^2/, \log\log l)$ due to Björklund and Husfeldt. Our approach, which builds on Björklund and Husfeldt's, us ...

Keywords: approximation algorithms, cycle, graph algorithms, path

3 Decision tree complexity and Betti numbers

Andrew Chi-Chih Yao
May 1994 **Proceedings of the twenty-sixth annual ACM symposium on Theory of computing STOC '94**
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4 Session 3A: Finding large cycles in Hamiltonian graphs

Tomás Feder, Rajeev Motwani
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